CLAIMS

What is claimed is:

- 5 1.A miniature motor structure, comprising:
 - a stator, further comprising:
 - a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth;
- a coil, formed in the first coil seat;
 - a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, said second coil seat formed on the first coil seat, each of said second outer teeth interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth; a circular magnet, surrounding said stator; and a shift, coupled to said stator.
- 20 2. The miniature motor structure according to claim 1, wherein said first bottom plate further includes a first central opening, said first outer teeth protruding form said first bottom plate and surrounding an outer periphery of said first bottom plate, said first inner teeth protruding form said first bottom plate and surrounding said first central opening.
- 3. The miniature motor structure according to claim 1, wherein said second bottom plate further includes a second central opening, said second outer teeth protruding form

said second bottom plate and surrounding an outer periphery of said second bottom plate, said second inner teeth protruding form said second bottom plate and surrounding said second central opening.

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4. The miniature motor structure according to claim 1, further comprises a metal housing surrounding said circular magnet and used to avoid magnetic leakage.

5. The miniature motor structure according to claim 1, 10 wherein said first coil seat and said second coil seat are made of silicon steel.

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6. The miniature motor structure according to claim 1, wherein said coil is positioned in a space defined by said first coil seat and said second coil seat.

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7. The miniature motor structure according to claim 1, wherein said coil is preformed.

8. The miniature motor structure according to claim 1, wherein said coil is wound around a post consisting of said first coil seat and said second coil seat.

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9. The miniature motor structure according to claim 1, wherein said first inner teeth and said second inner teeth further comprise a cut corner.

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10. The miniature motor structure according to claim 1, wherein said first inner teeth and said second inner teeth

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further comprise an arc.

11. The miniature motor structure according to claim 1, wherein said first inner teeth and said second inner teeth further comprise a gap.

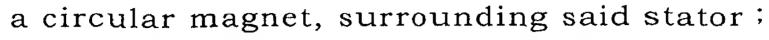
12.A miniature motor structure, comprising:

a stator, further comprising:

a first coil seat, including a first bottom plate, a plurality of first outer teeth, a plurality of first inner teeth, said first bottom plate further including a first central opening, said first outer teeth protruding form said first bottom plate and surrounding an outer periphery of said first bottom plate, said first inner teeth protruding form said first bottom plate and surrounding said first central opening;

a coil, formed in the first coil seat;

a second coil seat, including a second bottom plate, a plurality of second outer teeth, a plurality of second inner teeth, said second coil seat formed on the first coil said second bottom plate further including a second central opening, said second outer teeth bottom protruding form said second plate and surrounding an outer periphery of said second bottom plate, said second inner teeth protruding form said second bottom plate and surrounding said second opening, each of said second outer teeth central interposed between said adjacent first outer teeth, each of said second inner teeth interposed between said adjacent first inner teeth;



- a metal housing, surrounding said circular magnet; and
- a shift, coupled to said stator.
- 5 13. The miniature motor structure according to claim 12, wherein said first coil seat is identical to said second coil seat.
- 14. The miniature motor structure according to claim 12, wherein said first coil seat and said second coil seat are made of silicon steel.
 - 15. The miniature motor structure according to claim 12, wherein said coil is positioned in a space defined by said first coil seat and said second coil seat.
 - 16. The miniature motor structure according to claim 12, wherein said coil is preformed.
- 20 17. The miniature motor structure according to claim 12, wherein said coil is wound around a post consisting of said first coil seat and said second coil seat.
- 18. The miniature motor structure according to claim 12, wherein said first inner teeth and said second inner teeth further comprise a cut corner.
- 19. The miniature motor structure according to claim 1, wherein said first inner teeth and said second inner teeth further comprise an arc.

20. The miniature motor structure according to claim 1, wherein said first inner teeth and said second inner teeth further comprise a gap.